Patent claims

- 1. A probe (1) for electrical measurement methods, which has a substrate (16),
- mounted on which are two electrical components (47), which come to rest on a test piece (10), the probe (1) with the substrate (16) being so flexible that the probe (1) with the substrate (16) can adapt itself to different radii of curvature of the test piece (10),

characterized

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in that the probe (1) has a backing (22),

which at least partly covers at least one electrical component (4, 7), and

which (22) is formed elastically, especially permanently elastically,

in that the probe (1) comprises an exciter winding (4) as the first electrical component and a signal coil (7) as the second electrical component,

in that the exciter winding (4) encloses the coil sections of the signal coil (7),

in that the probe (1) has at least a baseline of 2.3 mm and in that the exciter coil (4) has at least nine windings and the signal coil (7) has at least five windings.

- 2. The probe as claimed in claim 1, characterized in that
- the substrate (16) is a flexible film.

3. The probe as claimed in claim 2, characterized in that

the film (16) is formed from polyimide.

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4. The probe as claimed in claim 1, characterized in that

the backing (22) is formed by an elastic, especially permanently elastic, sheet of a ferritic material.

- 5. The probe as claimed in claim 1, characterized in that
- the backing (22) is formed by an elastic, especially permanently elastic, casting compound (34), especially filled with ferrite particles.
- 6. The probe as claimed in claim 1, characterized in that

the probe (1) has as an electrical component at least one coil (4, 7), which is arranged on the substrate (16) in a planar manner.

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7. The probe as claimed in claim 1, characterized in that

the probe (1) is a probe (1) for an eddy current measurement.

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8. The probe as claimed in claim 1, characterized in that

the probe (1) has a ferromagnetic signal amplification (22).

- 9. The probe as claimed in claim 1, characterized in that
- the probe (1) is adaptable to radii of curvature of up to 50 mm.
 - 10. The probe as claimed in claim 1, characterized in that
- the backing (22) is a gas-filled material.
 - 11. The probe as claimed in claim 1, characterized in that

the exciter coil (4) and the signal coil (7) are arranged in one plane.

12. The probe as claimed in claim 1, characterized in that

the entire region to be examined is covered by the probe (12).